



Electronics For Extreme Environments

Task Manager: **Richard Patterson (GRC)**

Objective

- **Electrical Characterization test and report on selected PEM COTS devices for extreme environments,**
- **COTS device selection guideline for low-temperature/high temperature environments including degradation mechanisms and failure modes,**
- **Final report on identification of needed enabling technologies to improve operation, reliability, and lifetime of electronics at low temperatures.**

Deliverables

- **Extreme temperature electrical test results on selected plastic encapsulated microelectronic (PEM) COTS devices**
- **COTS device selection guideline**
- **Mid-year status report**
- **Final Report**

Participating Centers

- **Dr. Quie Kim (JPL)**